

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247967

Luminaire Tested: **LSR8B150D010 EC8B150935 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247967  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150935 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

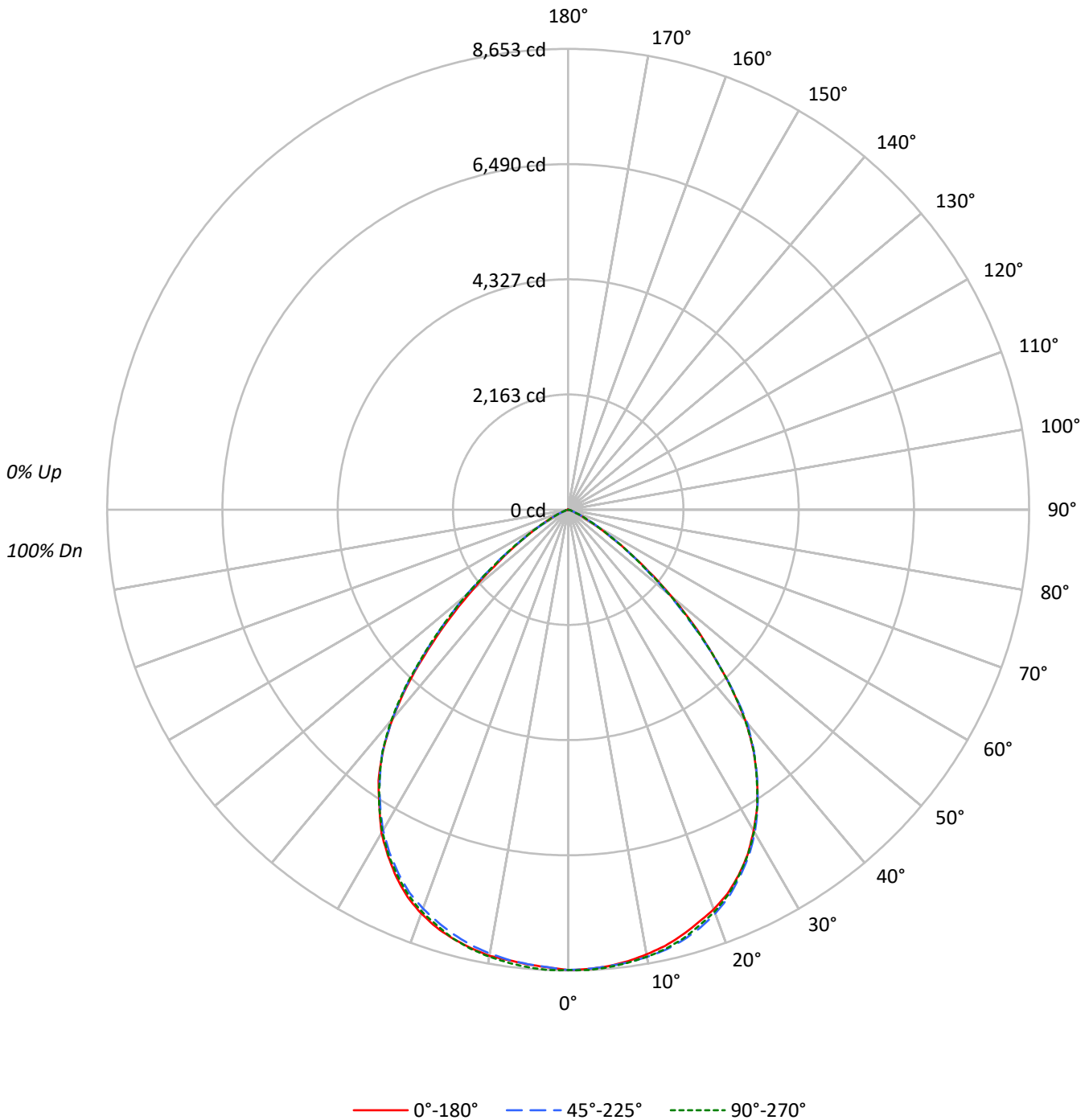
Lumens per Lamp: N/A  
Luminaire Lumens: 15033.0 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	266549	266549	266549
5°	266354	266988	265376
10°	265429	266897	266309
15°	264000	266126	266314
20°	262080	263619	264793
25°	257631	257923	259373
30°	247873	248421	249542
35°	232716	232299	233646
40°	208648	208101	206624
45°	166648	166613	162409
50°	120445	119299	112424
55°	73815	73266	69917
60°	37922	39396	38817
65°	18482	19226	19540
70°	7916	8150	7763
75°	6195	6195	5385
80°	3338	3037	2735
85°	2724	1804	3927



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	818.4	5.4
10°-20°	2347.5	15.6
20°-30°	3487.5	23.2
30°-40°	3843.3	25.6
40°-50°	2927.3	19.5
50°-60°	1261.9	8.4
60°-70°	289.9	1.9
70°-80°	48.2	0.3
80°-90°	9.1	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6653.4	44.3
0°-40°	10496.7	69.8
0°-60°	14685.9	97.7
0°-90°	15033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15033.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8644	8644	8644	8644	8644	
5°	8605	8604	8625	8567	8573	817
15°	8270	8362	8336	8262	8342	2333
25°	7572	7615	7581	7536	7623	3475
35°	6182	6185	6171	6166	6207	3838
45°	3821	3814	3821	3800	3724	2948
55°	1373	1372	1363	1371	1300	1280
65°	253	278	264	262	268	283
75°	52	52	52	53	45	48
85°	8	5	5	15	11	8
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	8644.0	8644.0	8644.0	8644.0	8644.0	8644.0	8644.0	8644.0	8644.0
2.5°	8634.6	8635.5	8629.5	8642.3	8652.6	8619.3	8599.7	8644.0	8601.4
5°	8604.8	8610.8	8603.9	8620.1	8625.3	8598.0	8567.3	8615.0	8573.2
7.5°	8553.6	8565.6	8575.8	8594.6	8580.9	8546.8	8526.3	8582.6	8531.5
10°	8476.9	8506.7	8528.9	8557.0	8523.8	8487.1	8462.4	8539.1	8505.0
12.5°	8390.7	8424.9	8462.4	8496.5	8446.2	8392.4	8379.7	8461.5	8430.8
15°	8269.6	8301.2	8361.7	8394.2	8336.2	8274.8	8262.0	8366.0	8342.1
17.5°	8127.2	8182.7	8233.8	8259.4	8186.1	8133.2	8126.4	8233.8	8224.4
20°	7986.5	8016.4	8069.2	8103.3	8033.4	7970.3	7967.7	8078.6	8069.2
22.5°	7808.3	7834.7	7869.7	7901.2	7835.6	7782.7	7786.1	7877.4	7875.6
25°	7572.0	7590.0	7614.7	7649.7	7580.6	7543.1	7536.2	7633.4	7623.2
27.5°	7296.6	7308.5	7336.7	7366.5	7306.8	7273.6	7261.6	7358.8	7324.7
30°	6961.4	6988.7	7008.3	7021.1	6976.8	6956.3	6947.8	7024.5	7008.3
32.5°	6605.8	6615.2	6616.1	6647.6	6600.7	6571.7	6571.7	6633.1	6596.4
35°	6182.0	6180.3	6185.4	6219.5	6170.9	6181.1	6165.8	6214.4	6206.7
37.5°	5717.2	5724.9	5726.6	5753.9	5726.6	5733.4	5727.4	5735.1	5710.4
40°	5183.3	5216.6	5227.7	5222.6	5169.7	5151.8	5136.4	5164.6	5133.0
42.5°	4520.7	4536.1	4537.8	4541.2	4526.7	4524.1	4505.4	4517.3	4467.8
45°	3821.4	3828.2	3813.7	3811.2	3820.6	3835.1	3800.1	3772.8	3724.2
47.5°	3182.7	3158.8	3093.1	3117.0	3127.2	3163.9	3126.4	3053.0	3013.0
50°	2510.7	2485.9	2435.6	2446.7	2486.8	2542.2	2498.7	2397.2	2343.5
52.5°	1918.0	1889.8	1833.5	1843.8	1855.7	1897.5	1874.5	1805.4	1753.4
55°	1373.0	1353.4	1372.2	1356.8	1362.8	1402.9	1371.3	1314.2	1300.5
57.5°	927.9	938.9	954.3	956.8	944.9	933.0	928.7	906.5	918.5
60°	614.9	623.4	649.0	656.7	638.8	613.2	618.3	618.3	629.4
62.5°	397.4	405.1	434.9	440.0	414.5	407.6	407.6	405.1	425.5
65°	253.3	268.6	278.0	264.4	263.5	254.1	261.8	261.8	267.8
67.5°	151.8	138.2	147.5	153.5	147.5	139.9	138.2	139.0	147.5
70°	87.8	84.4	90.4	87.0	90.4	78.5	87.8	83.6	86.1
72.5°	56.3	55.4	55.4	58.8	55.4	53.7	57.1	49.5	54.6
75°	52.0	52.0	52.0	45.2	52.0	50.3	52.9	40.1	45.2
77.5°	20.5	23.9	29.0	28.1	28.1	26.4	23.9	20.5	31.6
80°	18.8	17.1	23.0	27.3	17.1	20.5	23.0	14.5	15.4
82.5°	9.4	8.5	11.1	11.1	11.1	6.0	15.4	9.4	7.7
85°	7.7	3.4	5.1	5.1	5.1	6.8	15.4	4.3	11.1
87.5°	1.7	2.6	4.3	4.3	5.1	8.5	15.4	3.4	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)